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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,900	04/21/2005 Denis Fauconnier		Q103120	8868
23373 SUGHRUE MI	7590 07/20/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVÁNIA AVENUE, N	CASCA, FRED A		
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER	
			2617	
		MAIL DATE	DELIVERY MODE	
			07/20/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		А	pplication No.		Applicant(s)			
Office Action Summary			10/500,900		FAUCONNIER ET AL.			
			xaminer		Art Unit			
		F	RED A. CASCA		2617			
Period fo	The MAILING DATE of this commu r Reply	nication appear	rs on the cover she	eet with the co	orrespondence ad	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE IN ISSUMED IN ITSUMED	MAILING DATE s of 37 CFR 1.136(a munication. tatutory period will a y will, by statute, cau	E OF THIS COMM.). In no event, however, rupply and will expire SIX (6 use the application to become	MUNICATION may a reply be time MONTHS from to me ABANDONED	the mailing date of this of the control of the cont	•		
Status								
1) 又	Responsive to communication(s) file	ed on <i>April 24</i>	2009					
·			tion is non-final.					
′=		<i>′</i> —		matters, pros	secution as to the	e merits is		
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		·					
- 4)⊠	Claim(s) 1-39 is/are pending in the	application						
•	Claim(s) <u>1-39</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-39</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restri	ction and/or el	ection requiremen	nt.				
	on Papers		1					
	•							
-	The specification is objected to by the							
10)	The drawing(s) filed on is/are	-	· -	-				
	Applicant may not request that any obje			-				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	Pape 5) Notice	view Summary (er No(s)/Mail Dat ce of Informal Pa er:	te			

DETAILED ACTION

1. This action is in response to applicant's amendment filed on April 24, 2009. Claims 1-39 are still pending in the present application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-39 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Independent claims 1, 19 and 32 recites the limitation "indicating to the terminal, from a control facility, the list of shared channel." It is well known in the field of cellular communications that a cell is assigned with sets of frequencies. But it is not clear how the list transmitted to the terminal defines the frequencies assigned to a base station. It is not clear if the list of frequencies is the same as a set of frequencies. There is insufficient explanation of what a list of shared channels is and how they are indicated to the terminal. The specification does not provide any explanation of how the list indicates to the terminal and how the list represents the shared channels. Without additional guidance, there would be undue experimentation as to how the list of frequencies would be treated.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

Claim 1-9 and 14-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over 5.

Odenwalder et al (US 7167461 B2) in view of Akao (US 7123913 B2) and further in view of

Shurvinton et al (US 2004/0102189 A1).

Referring to claim 1, Odenwalder discloses a method of controlling communication

channels between a base station and terminals, including channels that are shared by the

terminals so as to communicate with said base station and at least one channel of the base station

that is dedicated to one of the terminals (abstract and col. 4, lines 50-57, "a traffic channel to be

shared"), the method comprising the following steps:

allocating a list of shared channels, , to the base station (col. 1, lines 39-65, "cellular

system", "FDMA", "TDMA", note a cellular system e.g., TDMA, FDMA, CDMA inherently

comprises a set of contiguous cells where each cell has a base station, and each cell is assigned a

set of frequencies (e.g., in FDMA and TDMA systems adjacent cells would have different

frequencies)) and at the base station level, selecting for the terminal one of the sets of shared

channels (col. 1, lines 39-65).

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Odenwalder does not specifically disclose indicating to the terminal, from a control

facility, the list of shared channels that is allocated to the base

station; and at the base station level, selecting for the terminal one of the sets of shared channels

and, independently of the control facility, indicating the selected set to the terminal by way of

said dedicated channel.

Shurvinton discloses the concept of indicating the frequencies or channels assigned to a

base station to a terminal (Par. 4) and selecting for the terminal one of the sets of shared channels

and, independently of the control facility, indicating the selected set to the terminal by way of

said dedicated channel (Par. 5, 6, 29 and Figures 1-8).

It would have been obvious to one of the ordinary skill in the art at the time of invention

to modify the method of Odenwalder as claimed for the purpose of providing flexibility to the

mobile terminal.

The combination of Odenwalder/Akao does not specifically disclose indicating the

selected channel to the terminal by way of a dedicated channel as claimed by applicant.

Kayama discloses indicating selected channels to the terminal by way of a dedicated

channel (paragraphs 46 and 65, "base station 1-1 directly notifies the mobile station of

information about radio channels assigned by the selected radio base station").

It would have been obvious to one of the ordinary skills in the art at the time of invention

to modify the method of Odenwalder/Akao for the purpose of providing a more efficient

communication system.

Referring to claim 2, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1, and further discloses the selection of one of the sets of shared channels for the terminal is made in response to a command for configuration of processing resources in the base station (Odenwalder, col. 1, lines 39-65, note that selection in response is inherent in cellular channel request and channel assignment).

Referring to claim 3, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 2, and further disclose processing resources of the base station comprise several modules to which are assigned processings relating to groups of channels respectively associated with said modules, and in which each set of shared channels that is used by the base station is included in the group associated with one of the modules (Odenwalder, col. 1, lines 39-65, "cellular system", "FDMA", "TDMA", col. 4, lines 4-20).

Referring to claim 4, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 3, and further discloses the set of shared channels that is indicated to the terminal is selected by the base station in such a way as to form part of the same group of channels, which is associated with one of the modules, as said dedicated channel (Odenwalder, col. 1, lines 39-65, "cellular system", "FDMA", "TDMA", col. 4, lines 4-20).

Referring to claim 5, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 4, and further discloses the set of shared channels that is indicated to the terminal is selected by the base station in such a way as to form part of the same group of

channels as each dedicated channel set up with said terminal (Odenwalder, col. 1, lines 39-65, "cellular system", "FDMA", "TDMA", col. 4, lines 4-20, Kayama, paragraphs 46 and 65).

Referring to claim 6, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1 and further disclose the list of shared channels that is allocated to the base station is composed of channels for signaling from the base station to the terminals (Odenwalder, col. 1, lines 39-65, "cellular system", "FDMA", "TDMA", col. 4, lines 4-20).

Referring to claim 7, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 6, and further discloses shared channels furthermore comprise at least one channel for traffic from the base station to the terminals, and in which the shared signaling channels of the allocated list are intended to transmit information serving for the reception by the terminals of the traffic carried by the shared traffic channels (Odenwalder, col. 1, lines 39-65, "cellular system", "FDMA", "TDMA", col. 4, lines 4-20).

Referring to claim 8, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1 and further discloses selected set is indicated to the terminal in a redundant manner (Odenwalder, col. 1, lines 39-65).

Referring to claim 9, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1 and further discloses dedicated channel carries a stream of symbols destined for the terminal and in which said selected set is indicated to the terminal by modifying the value of at least one symbol of said stream (Odenwalder, col. 1, lines 39-65, "TDMA", note that streams of symbols are inherent in digital communications).

Referring to claim 15, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1 and further discloses the sets making up the list of shared channels that is allocated to the base station have the same number of channels (Odenwalder, col. 1, lines 39-65).

Referring to claim 16, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claims 1, and further discloses some at least of the sets making up the list of shared channels that is allocated to the base station have numbers of channels that differ (Odenwalder, col. 1, lines 39-65).

Referring to claim 17, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 1 and further discloses the sets making up the list of Shared channels that is allocated to the base station are disjoint (Odenwalder, col. 1, lines 39-65).

Referring to claim 18, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed claim 1 and further discloses some at least of the sets making up the list of shared channels that is allocated to the base station have channels in common (Odenwalder, col. 1, lines 39-65, "CDMA").

Referring to claim 14 the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 9.

The combo does not disclose the symbols whose value is modified are transmitted with a greater transmission power than the other symbols of the stream of symbols over said dedicated channel, as claimed.

I would have been an obvious design choice to transmit symbols with modified values with a greater transmission power, since the applicant has not mentioned any purpose for doing so.

Referring to claims 19 and 32, claims 19 and 32 define a mobile communication base station and terminal reciting features analogous to the features of the mobile communication method defined by claims 1 (as rejected above). Thus, the combination of Odenwalder/Akao/Shurvinton discloses all elements of claims 19 and 32 (please see the rejection of claim 1 above).

6. Claim 1-9 and 14-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Odenwalder et al (US 7167461 B2) in view of Akao (US 7123913 B2) and further in view of Kayama et al (US 2003/0017838 A1) and still further in view of well known prior art (MPEP 2144.03) and further in view of Wang et al (US 2002/0034158 A1).

Referring to claims 10,11, and 12, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 9.

The combo fails to specifically disclose the concepts of indicating periodically and the interleaving symbols in the format claimed by the applicant.

The applicant takes official notice of the fact that period processes and symbol interleaving are well known in the art.

It would have been obvious to one of the ordinary skills in the art at the time of invention to modify the combo as claimed for the purpose of providing a more efficient communication system.

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Referring to claim 13, the combination of Odenwalder/Akao/Shurvinton discloses the method as claimed in claim 12, and further discloses information comprises an identifier of at least one of the shared channels of said selected set (Odenwalder, col. 1, lines 39-65, "CDMA").

Referring to claims 20-31 and 33-39, claims 20-31 and 33-39 define a base station and a mobile communication terminal reciting features analogous to the features of the mobile communication method defined by claims 1-18 (as rejected above). Thus, the combination of Odenwalder/Akao/Shurvinton and well known prior art discloses all elements of claims 20-31 and 33-39 (please see the rejection of claim 1-18 above).

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Response to Arguments

7. Applicant's arguments with respect to claims 1-39 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to FRED A. CASCA whose telephone number is (571)272-7918.

The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Harper, can be reached at (571) 272-7605. The fax number for the organization

where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/VINCENT P. HARPER/

Supervisory Patent Examiner, Art Unit 2617